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DIALOG(R)File 351:Derwent WPI

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Heat adhesive composite fibre for nonwoven fabric - made of high m.pt. polymer core with hollow part and low m.pt. polymer sheath

Patent Assignee: TOYOBO KK (TOYM )

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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JP 3000814	A	19910107	JP 89134038	A	19890525	199107 B
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JP 2803165	B2	19980924	JP 89134038	A	19890525	199843
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Priority Applications (No Type Date): JP 89134038 A 19890525

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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JP 3000814	A		6		
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JP 2803165	B2		6	D01F-008/04	Previous Publ. patent JP 3000814
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Abstract (Basic): JP 3000814 A

Fibre comprises two kinds of polymer having more than 20 deg.C of difference of m.pt. The high m.pt. polymer composes the core part having hollow part and the low m.pt. polymer composes the sheath part. The composite fibre present egg-shaped configuration having 1.05-1.50 ratio of long radius to short radius at at least cross-section of the core part. The centre point of the hollow part is made eccentric so as to satisfy below value to the core part and/or sheath part.

When the centre of the hollow part is made eccentric to centre of the core part, the ratio of distance between both centres to long radius of the core part is 0.1-0.4. When centre of the hollow part is made eccentric to centre of the sheath part, the ratio of distance between both centres to long radius of the sheath part is 0.1-0.4. When centre of the hollow part is made eccentric to centres of the core and the sheath part, at least one among ratios which the ratio of distance between centres of the hollow part to long radius of the core part and distance between centres of the hollow part to long radius of the sheath part is above 0.1, and both are below 0.4. Area ratio of cross-sectional area of the hollow part to that of the core part is 5-40%.

USE/ADVANTAGE - Fibre is useful for a hollow composite fibre having excellent bulk and elastic recovery and is suitable as a material for nonwoven fabric. (6pp Dwg.No.0/3)

Derwent Class: A94; F01

International Patent Class (Main): D01F-008/04

International Patent Class (Additional): D01D-005/24; D01F-008/06 ;  
D01F-008/14 ; D04H-001/54